

67,008-079
Sikorsky Docket No.:S-5696**REMARKS**

Applicant wishes to thank the Examiner for the detailed remarks. Claims 1, 3, 4, 7, 8, 10 and 14 have been amended. New claims 15-20 are presented. Accordingly, claims 1-20 are pending.

Claims 1-10 were rejected under 35 U.S.C. §102(b) as being anticipated by *Wheeler* (5,058,837). Applicant respectfully traverses this rejection. The vortex generators 40 disclosed by *Wheeler* are all located upon a planar aerodynamic surface 70 (see Figures 4, 4a, 4b) to generate intersecting vortices 64, 68 (see Figures 1, 2, 3). Contrary to the Examiner's assertion, *Wheeler* completely fails to disclose generating small-scale vortices that are at least partially entrained within the primary tip vortex as recited in Applicant's claims. In fact, *Wheeler* fails to disclose any surface that generates a primary tip vortex. This is supported by the simple fact that the vortices formed by *Wheeler* are formed from a boundary flow 73 (see Figure 4A, 4B). No vortices are formed by *Wheeler* within a primary tip vortex. Since no tip structure is disclosed in *Wheeler*, no primary *tip* vortex can be formed and there is thus no way for *Wheeler* to disclose generating small-scale vortices that are at least partially entrained with a primary tip vortex as recited in Applicant's claims. Nonetheless, to further distinguish Applicant's claims, Applicant has amended the independent claims to further define the structural location of Applicant's plurality of vorticity generating protuberances. The claims are patentable.

Applicant does not claim to have invented the concept of vortex generation. Rather, Applicant has provided a unique way of destabilizing a primary tip vortex. The claims are patentable.

New claims 15-20 recite further features of the present invention which are neither disclosed nor suggested by the cited references and are thus properly allowable.

Applicant believes that no additional fees are due; however, should additional fees or extensions be required, the Commissioner is authorized to charge Deposit Account No. 50-1482.

67,008-079
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in the name of Carlson, Gaskey & Olds.

Applicant respectfully submits that this case is in condition for allowance. If the Examiner believes that a teleconference will facilitate moving this case forward to being issued, Applicant's representative can be contacted at the number indicated below.

Respectfully Submitted,
CARLSON, GASKEY & OLDS, P.C.



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